

# CALIFORNIA

## Science and Engineering Profile

	California	U.S.	Rank		California	U.S.	Rank
Doctoral scientists, 1993	54,713	430,332	1	Total R&D performance, 1993 (millions)	\$33,721	\$161,427	1
Doctoral engineers, 1993	13,424	81,293	1	Industry R&D, 1993 (millions)	\$26,541	\$117,622	1
S&E doctorates awarded, 1995	3,653	26,482	1	Academic R&D, 1994 (millions)	\$2,464	\$20,573	1
of which, in engineering	22%	23%		of which, in life sciences	58%	55%	
in life sciences	19%	24%		in engineering	13%	16%	
in psychology	19%	13%		in physical sciences	12%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	6,248	36,143	1	expenditures, 1993 (millions)	\$19,709	\$163,994	1
S&E graduate students, 1994				Number of SBIR awards, 1990-94	4,175	18,023	1
in doctorate-granting institutions	44,778	438,694	1	Patents issued to state residents, 1995	9,263	55,717	1
Population, 1995 (000s)	31,589	262,755	1	Gross state product, 1992 (billions)	\$787.9	\$5,994.1	1
Civilian labor force, 1995 (000s)	15,415	132,281	1	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$23,699	\$22,788	13	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1995 (millions)	\$152,534	\$1,326,294	1	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$11,280	\$65,654	1	finance, insurance, real estate	21%	18%	
				services	23%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in California by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	11,279,888	1,400,726	1,791,580	6,046,504	1,659,223	354,290	27,565	1
<b>Department of Agriculture</b>	79,673	56,659	0	320	22,219	475	0	3
<b>Department of Commerce</b>	36,871	15,534	285	10,406	10,435	63	148	7
<b>Department of Defense</b>	6,597,594	1,216,765	222,094	4,845,100	272,854	40,781	0	1
<b>Department of Energy</b>	1,012,937	15,397	778,438	114,309	88,150	16,643	0	2
<b>Dept. of Health &amp; Human Services</b>	1,210,119	1,191	25,379	41,992	868,164	261,351	12,042	2
<b>Department of the Interior</b>	49,720	42,174	140	1,224	5,775	42	365	3
<b>Department of Transportation</b>	31,395	7,923	111	7,797	1,345	800	13,419	6
<b>Environmental Protection Agency</b>	15,035	0	0	9,050	4,717	0	1,268	7
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,962,011	45,083	764,789	983,870	151,572	16,622	75	1
<b>National Science Foundation</b>	284,533	0	344	32,436	233,992	17,513	248	1
<b>State rank</b>	1	3	1	1	1	2	2	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.